



IFW

Patent  
Attorney Docket No. 1032256-000024

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Raynald Labrecque et al.

Application No.: 10/533,805

Filing Date: October 26, 2005

Title: ELECTRICAL HEATING REACTOR FOR GAS PHASE REFORMING

Group Art Unit: 1753

Examiner:

Confirmation No.: 4174

SECOND  
INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a SECOND Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \_\_\_\_\_ is enclosed for the fee due.
- ☐ Charge \_\_\_\_\_ to credit card. Form PTO-2038 is attached.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BUCHANAN INGERSOLL PC

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620

By

William C. Rowland

William C. Rowland

Registration No. 30,888

Date: March 30, 2006

**Buchanan Ingersoll PC**

ATTORNEYS

Including attorneys from Burns Doane Swecker & Mathis

(8/05)



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of	)	
Raynald Labrecque et al.	)	Group Art Unit: 1753
Application No.: 10/533,805	)	Examiner:
Filed: October 26, 2005	)	Confirmation No.: 4174
For: ELECTRICAL HEATING REACTOR	)	
FOR GAS PHASE REFORMING	)	

**SECOND INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.


The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BUCHANAN INGERSOLL PC

Date March 30, 2006

By:   
William C. Rowland  
Registration No. 30,888

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620

MAR 30 2006

# **SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

2

## **Complete if Known**

Application Number	10/533,805
Filing Date	October 26, 2005
First Named Inventor	Raynald Labrecque et al.
Examiner Name	
Attorney Docket Number	1032256-000024

## **U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	5,993,761		Czernichowski et al.	11-30-1999
	5,362,468		Coulon et al.	11-08-1994
	5,207,185		Moard et al.	05-04-1993
	5,299,536		Greiner, et al.	04-05-1994
	5,546,701		Greiner, et al.	08-20-1996
	5,728,183		Greiner, et al.	03-17-1998
	6,089,859		Greiner, et al.	07-18-2000
	6,207,122		Clawson et al.	03-27-2001
	5,554,351		Primdahl	09-10-1996
	5,932,141		Rostrop-Nielson et al.	08-03-1999
	6,136,279		Stahl	10-24-2000
	5,492,649		Christensen	02-20-1996
	5,959,297		Primdahl	09-28-1999
	6,143,202		Christensen et al.	11-07-2000
	6,224,789		Dybkaer	05-01-2001
	5,997,594		Edlund et al.	12-07-1999
	6,152,995		Edlund	11-28-2000
	6,221,117		Edlund	04-24-2001
	5,938,800		Verrill et al.	08-17-1999
	6,245,309	B1	Etievant et al.	06-12-2001

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS						
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
	*00/17418		WO	03-30-2000							X
	*00/13786		WO	03-16-2000							X
	*2 757 499		France (corresponds to U.S. 6,245,309, see above)	06-26-1998				X			

## **NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	*FAUVARQUE J., "Synthesis Gas: Of Chemical Synthesis to the Production of Electricity", Info Chimie Magazine, No. 427, April 2001, pages 84-88.
	*COURTY P. et al., "Syngas: A Promising Feedstock in the Near Future", Energy Progress, Vol. 7, No. 1, 1987, pages 23-30.
	*BORGWARDT R.H., "Methanol Production from Biomass and Natural Gas as Transportation Fuel", Ind. Eng. Chem Rs, Vol. 37, 1998, pages 3720-3767.
	*ALLARD M., Issues Associated with Widespread Utilization of Methanol", Soc. Automot. Eng. [Spec. Publ.] SP-1505, 2000, pages 33-36.
	*STOUKIDES M., et al., "Nonoxidative Methane Coupling and Synthesis Gas Production in Solid Electrolyte Cells, Symposium on Natural Gas Upgrading !!, San Francisco, April 5-10, 1992, ACS, The Division of

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

## SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of	2	Attorney Docket Number	1032256-000024
-------	---	----	---	------------------------	----------------

**Complete if Known**

Application Number	10/533,805
Filing Date	October 26, 2005
First Named Inventor	Raynald Labrecque et al.
Examiner Name	

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Petroleum Chemistry Preprints, Vol. 37, No. 1, pages 261-268.
	*BROMBERG L., et al., "Plasma Reformer-fuel Cell System for Decentralized Power Applications", Int. J. Hydrogen Energy, Vol. 22, No. 1, 1997, pages 83-94.
	*KASKE G., et al., "Hydrogen Production by the Hüls Plasma-Reforming Process", Hydrogen Energy Progr. VI, Vol. 1, 1986, pages 185-190.
	*LESUEUR H. et al., "Electrically Assisted Partial Oxidation of Methane", Int. J. Hydrogen Energy, Vol. 19, No. 2, 1994, pages 139-144.
	*SHINE, N.B., "Fluohmic Process for Hydrogen Cyanide", Chem. Eng. Progress, Vol. 67, No. 2, 1971, pages 52-57.
	*LABRECQUE, R. et al., "L'Utilisation d'électrons pour la production de carburants synthétiques", Institut de recherche, 17ième Congrès de L'AQME, May 2003, pages 21-24.
	*MURADOV, N. et al., "Integrated Energy Systems for Hydrogen and Electriciy Supply, September 25, 2002, pages 1-11.
	*LAPSZEWICZ, J., et al., "Investigation of the Mechanism of Partial Oxidation of Methane to Synthesis Gas", Symposium on Natural Gas Upgrading II, April 5-10, 1992, pages 252-260.
	*Hydro-Qubec, "Mémoire d'Hydro-Québec sur la mise en oeuvre du Protocole de Kyoto", February 2003, pages 1-41.
	*FRIDMAN, A., et al., "Gliding arc gas discharge", Progress in Energy and Combustion Science, Elsevier Science Publishers, Amsterdam, NL, Vol. 25, No. 2, April 1998, pages 211-231.

**\*Copy Attached**

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.